

WHAT IS CLAIMED IS:

1. A vibration information transmission apparatus comprising a transmitter provided as an apparatus for outputting vibration information transmitted thereto from a vibration sensor for detecting vibration of an object to be measured to a digital network,

said transmitter having in the same casing a transducer circuit for converting said vibration information transmitted thereto from said vibration sensor into an analog electric signal; an A/D conversion circuit for converting said analog electric signal transmitted thereto from said transducer circuit into a digital signal, and a network interface for outputting said digital signal transmitted thereto from said A/D conversion circuit to said digital network.

2. The vibration information transmission apparatus according to claim 1, wherein said transmitter has an overall vibration detection circuit, provided in parallel with said A/D conversion circuit, for detecting an abnormal vibration by reading an amplitude value of said analog electric signal transmitted thereto from said transducer circuit and outputting signals to said network interface.

3. A vibration monitoring/analyzing system for transmitting vibration data transmitted thereto from a vibration information transmission apparatus according to claim 1 to an analysis/diagnosis means or/and a vibration

monitoring means for monitoring an abnormal vibration through said digital network and giving a warning.

4. The vibration monitoring/analyzing system according to claim 3, wherein a plurality of transmitters is connected
5 to a plurality of vibration sensors individually at 1:1.

5. The vibration monitoring/analyzing system according to claim 3, further comprising a means for generating a synchronizing trigger signal at a reference position in a rotation phase of a rotating machine to be measured, wherein
10 each of transmitters has an input portion of said synchronizing trigger signal transmitted from said means for generating said synchronizing trigger signal.